

Planetary Forecaster
What is the Relationship between a Planet's Tilt and its Seasons?
LS 3.4

Read page 83 & 83.

Paragraph 1 (bottom pg. 82 and top of 83) Main Idea:	Facts to Support Main Idea
Paragraph 2 (pg. 83) Main Idea:	
Paragraph 3 (pg. 83) Main Idea:	
Paragraph 4 (pg. 84) Use the Average Hours of Daylight Chart .	What patterns do you see?
Paragraph 5 (pg. 84)	
Paragraph 6 (pg. 84) Use the Average Hours of Daylight Chart .	When do different places experience their summer solstice and winter solstice?

Stop and Think

1. The Northern Hemisphere experiences summer solstice in June. When do you think the Southern Hemisphere experiences summer solstice?
2. The Northern Hemisphere experiences winter solstice in December. When do you think the Southern Hemisphere experiences winter solstice?
3. When does Helsinki, Finland experience the summer solstice (greatest number of daylight hours)?
Winter solstice (least number of daylight hours)?
4. When does Buenos Aires, Argentina experience the summer solstice? Winter solstice?
5. Which city in the table has the most variation in day length?
6. Which city in the table has the least variation in day length?
7. If the Northern Hemisphere experiences the spring equinox in March, when does the Southern Hemisphere experience the spring equinox?
8. When does the Southern Hemisphere experience the fall equinox?
9. When does Quito, Ecuador experience equinox?
10. Why are the hours of daylight the greatest during the summer?
11. Quito, Ecuador experiences warm tropical weather and about 12 hours of daylight all year. Chicago, Illinois experiences cold winters, hot summers, and warm spring and fall temperatures. Chicago's longest daytime is about 15 hours, and its shortest is about 9 hours. Why are these two places different?
12. Cindy thinks it is hot in summer because Earth is closer to the Sun in the summer. Do you agree with Cindy? (Refer to page 85 pictures)

What would you say to Cindy?

Update the Project Board

Using the *What are we learning?* and *What is our evidence?* columns describe what you learned from the investigation and the science readings. Evidence includes data from investigations, as well as knowledge gained from other sources, such as reading, talking to experts, or media.